

Amendments to the Claims:

Please amend claims 1, 11, 58, 59, and 68 as follows. The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system comprising:
a plurality of spatially resolved labels generating identifiable spectra in response to excitation energy, wherein at least some of the spectra comprise a plurality of signals for each label, the plurality of signals defining a plurality of wavelengths, the wavelengths from the spectra being intermingled;

a first family of the labels generating different identifiable spectra having first signals with a first wavelength, a first label of the first family including an associated second signal defining a second wavelength, a plurality of labels of the first family including associated second signals having wavelengths which are different than the second wavelength; and

a detector simultaneously imaging ~~at least some of the spectra~~ of the plurality of spatially resolved labels upon a surface for identification of the labels.

2. (Canceled)

3. (Previously Presented) The system of claim 1, wherein the labels comprise at least one semiconductor nanocrystal.

4. (Previously Presented) The system of claim 1, wherein each label comprises at least one population of semiconductor nanocrystals, each population generating a signal having a population wavelength in response to the excitation energy.

5. (Original) The system of claim 4, wherein at least some of the labels comprise a plurality of the populations supported by a matrix.

Entered
2/10/04
MCS